

ILLEGIB

Approved For Release 2001/03/30 : CIA-RDP78T05439A000400320061-9

Approved For Release 2001/03/30 : CIA-RDP78T05439A000400320061-9

~~SECRET NO FOREIGN DISSEM~~
Declass review by NIMA/DoD

IB - 17/65
21 January 1965
Copy No. 1

MEMORANDUM FOR: Chief, Defensive Systems Division, OSI
Chief, Forces Division, ORR

25X1A ATTENTION :

THROUGH : Chief, Requirements Branch, Reconnaissance Group, CGS

FROM : Chief, Photographic Intelligence Division, CIA

SUBJECT : "G" Class Ballistic Missile Submarine Construction,
Lu-Ta Shipyard, Dairen, China, Photo Study

REFERENCES : (a) Requirement No. C-D14-82,053
CIA/PID Project No. 30979-4
(b) NIS 39A, Supp. I, Section 2, Fig. 2-22
"Port Plan Dairen (Lu Ta), China"
(c) USNPIC 646/61-S "USSR 'G' Class SSB
Photo Analysis (S)"
(d) DIA PC 230/2-1 "Naval Ships to the USSR"

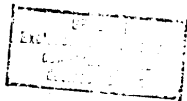
25X1C

1. In response to Requirement No. C-D14-82,053 (Project No. 3079-4), a study of all Churchdoor photography [redacted] of the Dairen (Lu-Ta) Shipyard, Dairen (Ta-Lien), China (38 55 44N - 121 38 17E), was made, in stereo, in order to: (a) confirm or deny the existence of a possible second "G" Class submarine hull; and (b) provide detailed measurements of the "G" Class submarine known to have been assembled there, as well as measurements of all identifiable features of this submarine noted during the various phases of its construction.

25X1A

2. As indicated via telephone conversation between [redacted] CIA/PID/IB and [redacted] CIA/ORR/FD/NSB on 25 November 1964, there was no evidence of a possible second submarine hull (or of objects associated with the construction of the first submarine) on excellent quality stereo

25X1D [redacted]



~~SECRET NO FOREIGN DISSEM~~

IB - 17/65
Page 2

SUBJECT: "G" Class Ballistic Missile Submarine Construction,
Lu-Ta Shipyard, Dairen, China, Photo Study

25X1D 3. A detailed photo study, in stereo, of [REDACTED]
25X1D [REDACTED] revealed one completed "G" Class SSB in the water alongside commercial
pier #4 opposite the shipyard (see Reference b). The center building way
25X1D (annotated as way #2 on Enclosure 2) on which a "G" Class submarine was
25X1D previously noted under construction/assembly, was observed on [REDACTED]
[REDACTED] to contain 3 probable PTF hulls, possibly "Shanghai" Class and 3½
possible tugboat/trawler hulls. These vessels were placed in two files
along the length of the building way. Five possible small tugboat/trawler
hull sections were located in the staging areas just above the head of
building way #2. Building way #1 (see Enclosure 2) contained one possible
tugboat/trawler and one small barge. Numerous small pieces of construction
material were noted in the large staging area at the head of this building
way - none of which could be identified as being submarine-associated.
25X1D Building way #3 was observed on [REDACTED] to contain: six possible
"Shanghai" Class PTF's; 2 possible PTF hull sections; and one medium 25X1B
tugboat/trawler. The possible "Shanghai's" and PTF hull sections are
25X1B placed unevenly in 4 files along the length of building way #3. The
staging area just above this building way was completely empty. No
evidence of possible concealment and/or camouflage (e.g. [REDACTED])
[REDACTED] was noted on any of the building ways or
25X1D staging areas on the [REDACTED] coverage. No evidence of possible sub-
marine construction or assembly was noted in any other exposed area of
the shipyard on this coverage.
25X1D 4. A detailed photo analysis, in stereo, of [REDACTED] flown
25X1D [REDACTED] has again failed to reveal hard evidence of a second
submarine under construction at this yard.

25X1B

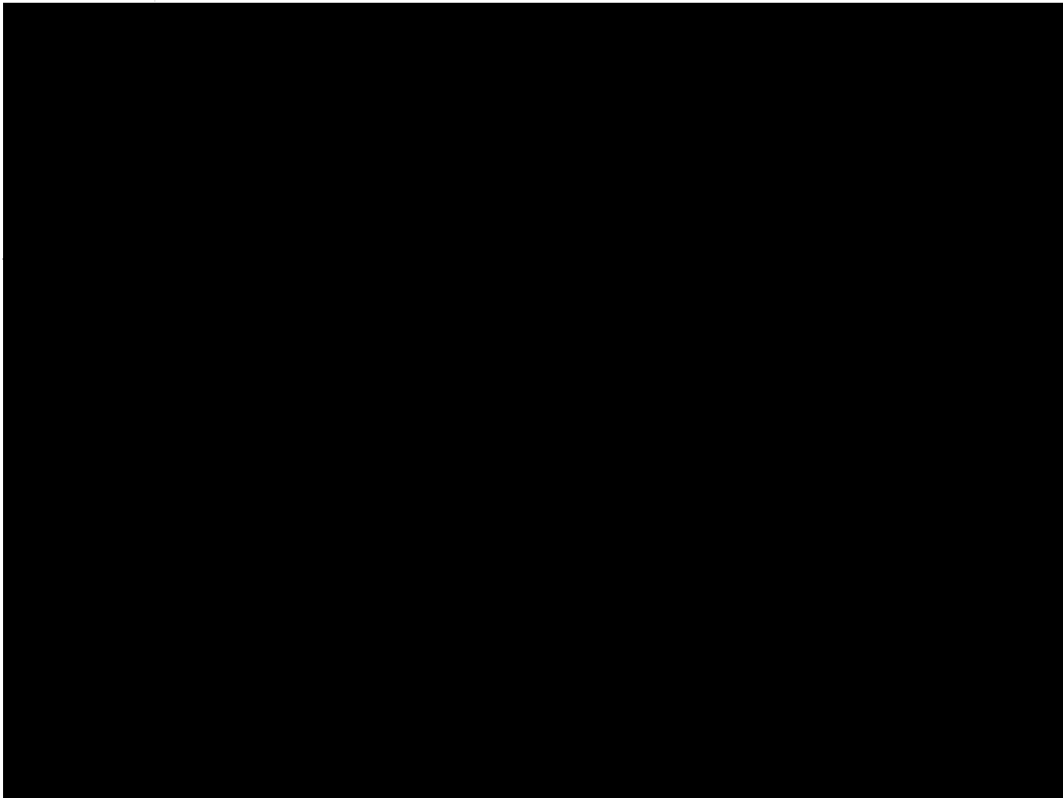
25X1B

SECRET - NO FORN DISSEM

IB - 17/65

Page 3

SUBJECT: "G" Class Ballistic Missile Submarine Construction,
Lu-Ta Shipyard, Dairen, China, Photo Study



25X1B

25X1D

5. The submarine first noted on [REDACTED] in the water by the commercial pier is nearly identical to the "standard" Soviet "G" Class SSB as described in reference (b) with respect to outer dimensions and visible configuration. Continuing photo/mensural analysis has permitted the identification - as a "G" Class - of the submarine under construction on the shipbuilding way at Lu-Ta Shipyard as far back as [REDACTED] Photo, mensural, and plotting techniques have established that a possible submarine hull section was under an initial stage of assembly in [REDACTED]. Identifiable features of the submarine which were noted in each instance of coverage of Dairen have been compiled in chronological order and are described in Enclosure (1) to this memo. A line drawing of the submarine from Enclosure (3) is keyed to each of the first five instances of coverage - and to the text of Enclosure (1).

25X1D

25X1D

IB - 17/65
Page 4

SUBJECT: "G" Class Ballistic Missile Submarine Construction,
Lu-Ta Shipyard, Dairen, China, Photo Study

6. Photography utilized for this project was as follows:

25X1D

7. Forwarded for your retention are: one (1) annotated line drawing (CIA/PID/IB-P-1507/64) of the Lu-Ta Shipyard, Dairen, China (Enclosure 2); and five (5) annotated line drawings (CIA/PID/IB-P-1630/65 through P-1634/65) of a "G" Class submarine - or possible submarine hull - observed during various phases of construction/completion at Dairen between [REDACTED]

25X1D

25X1D

25X1D

25X1D

25X1D

25X1D

8. All measurements have been made by the NPIC Technical Intelligence Division (assisted by the project analyst) with the exception of: (a) the distance [REDACTED] from the bow to the unidentified vertical shear of the "G" Class SSB under construction in [REDACTED] (b) the measurements give for the breasting platforms observed on [REDACTED] and (c) those measurements described in the text of this memorandum which are prefaced by the word "roughly". These measurements were made by the CIA/PID project analysts. They should be considered as approximate and must not be taken as official NPIC mensuration data. The NPIC/TID measurements are considered to be accurate within [REDACTED] whichever is greater. This factor is, in each instance, dependent upon the quality of the photography - and is so noted on each of the line drawings forwarded via enclosure (3). For reasons of less than optimum photographic quality, resolution, obliquity, contrast, or lighting the drawings forwarded via Enclosure (3) are not to scale - and only those measurements specifically annotated fall within the accuracy statement given on each drawing. The line drawing of Lu-Ta Shipyard, forwarded as Enclosure (2) is not drawn to scale and is to be used for locating purposes only.

25X1A

9. It should be noted that this requirement parallels a portion of a similar requirement (C-RR4-82,039), previously submitted by [REDACTED] which is now in the process of completion. The finalized response to that requirement is to contain photo enlargements illustrating all phases of the

~~SECRET~~ ~~NO FOREIGN DISSEM~~

IB - 17/65

Page 5

SUBJECT: "G" Class Ballistic Missile Submarine Construction,
Lu-Ta Shipyard, Dairen, China, Photo Study

25X1A submarine under construction at Dairen. As per conversation between
25X1A [redacted] CIA/ORR/FD/NSB, and [redacted] CIA/PID/IB,
on 18 January 1965 it was agreed that a copy of the graphics to the ORR
requirement should be forwarded to OSI, as well as ORR, in view of OSI's
interest in this subject.

25X1A 10. The photo analysis on this project was performed by [redacted]
25X1A [redacted] who may be
contacted on extensions 2548 and 2547 respectively, for any additional
information. This project was performed jointly by the Geo-Military Branch
and the Industrial Branch of the Photographic Intelligence Division, CIA.

11. This memorandum with enclosures completes the referenced
requirement.

25X1A

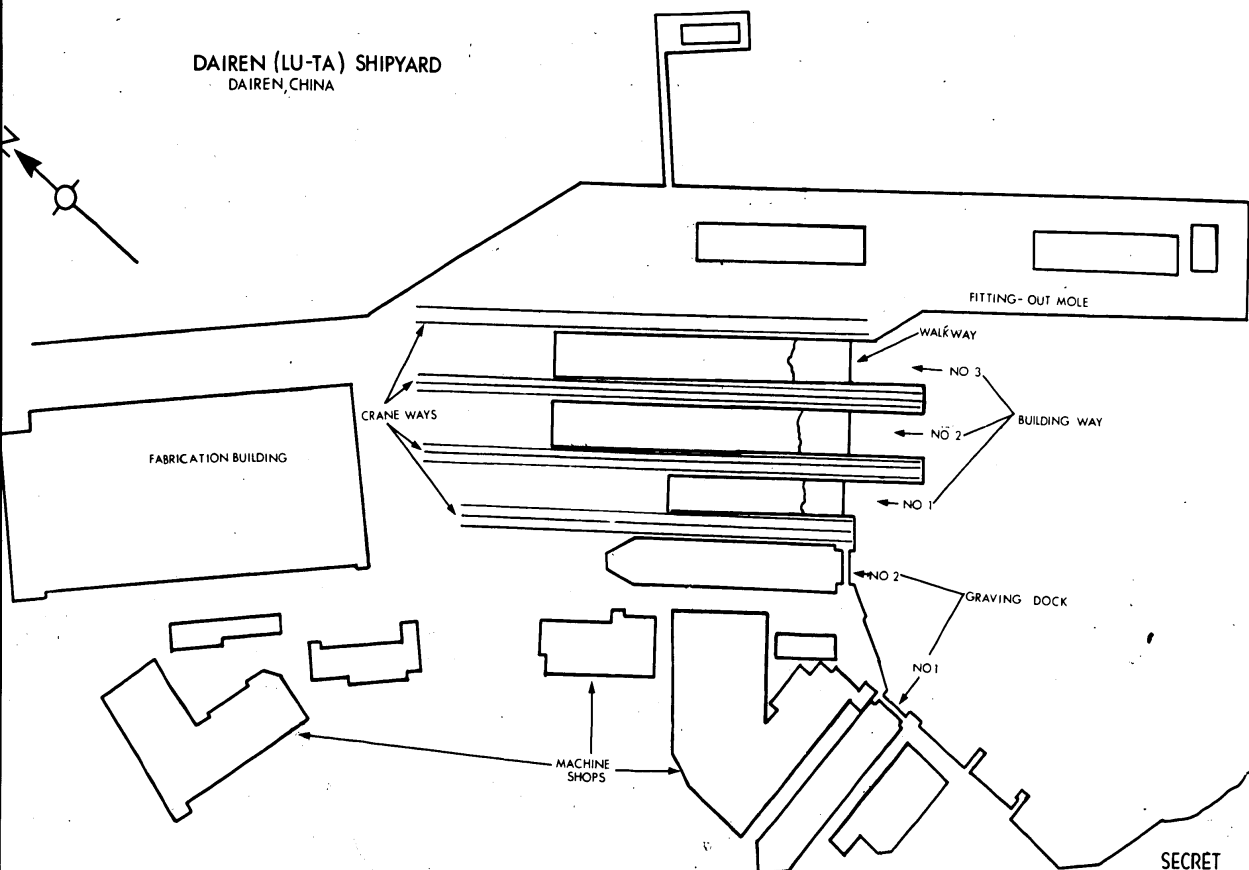
ENCLOSURES:

- 25X1D (1) Detailed Chronological Photo/Mensural Analysis
of the "G" Class SSB observed at Dairen, China
[redacted]
- (2) Locator Line Drawing of the Lu-Ta Shipyard, Dairen,
China (CIA/PID/IB-P-1507/64)
- 25X1D (3) Five (5) Line Drawings of the "G" Class SSB Under
Construction, Lu-Ta Shipyard, Dairen, China [redacted]
(CIA/PID/IB-P-1630/65 through P-1634/65)

Next 4 Page(s) In Document Exempt

SECRET
NO FOREIGN DISSEM

DAIREN (LU-TA) SHIPYARD
DAIREN, CHINA



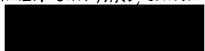
SECRET
NO FOREIGN DISSEM

SECRET

NO FOREIGN DISSEM

POSSIBLE SUBMARINE HULL
IN INITIAL STAGE OF ASSEMBLY
BUILDING WAY #2
DAIKEN SHIPYARD, CHINA

25X1D



25X1D



25X1D

25X1D

25X1D

25X1D

PHOTO DATA



SUBMARINE HULL

SHED ROOFS

NOTES:

1. ALL DIMENSIONS BY CIA/TID/TAB (NPIC) WITH THE
ASSISTANCE OF THE PT

3. DASHED LINES (---) REPRESENTS INTERPRETATION
OF TENUOUS IMAGERY.

4. DRAWING IS NOT TO EXACT SCALE.

25X1D



SECRET

NO FOREIGN DISSEM

CIA/PID-1B-P-1630/65

SECRET
NO FOREIGN DISSEM

POSSIBLE SUBMARINE HULL
UNDER CONSTRUCTION
BUILDING WAY #2
DAIREN SHIPYARD, CHINA

25X1D

25X1D

SHADOW

25X1D

25X1D

25X1D

PHOTO DATA

NOTES:

1. ALL DIMENSIONS PROVIDED BY CIA/TIP/TAB (INFO)
WITH THE ASSISTANCE OF THE FI.

3. DASHED LINES (---) REPRESENT INTERPRETATION
OF TENUOUS IMAGERY.

4. DRAWING IS NOT TO EXACT SCALE.

25X1C

25X1D

SUBMARINE HULL
SHED ROOFS

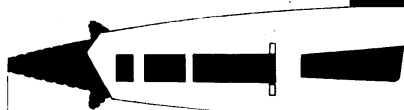
CIA/PID-18-P-1631/65

SECRET
NO FOREIGN DISSEM

SECRET
NO FOREIGN DISSEM

ILLEGIB

25X1D



ORIGINAL LENGTH 315'

25X1D

ILLEGIB

SECRET
NO FOREIGN DISSEM

SECRET
NO FOREIGN DISSEM

"G" CLASS SSB UNDER CONSTRUCTION
BUILDING WAY #2
DAIREN SHIPYARD, CHINA

OVERALL LENGTH

SHADOW

25X1D





25X1D

25X1D

PHOTO DATA

25X1D

NOTES:

-  SUBMARINE HULL
-  POSSIBLE MATTING OVER DECK OF SUBMARINE
-  SHED ROOFS
-  SAIL AREA DETAIL

1. ALL DIMENSIONS PROVIDED BY CIA/TID/TAB (NPIC) WITH THE ASSISTANCE OF THE PI.
2. QUALITY OF PHOTOGRAPHY WAS LESS THAN OPTIMUM DUE TO OBLIQUITY AND HAZE.
3. DIFFICULTY IN DISTINGUISHING HULL IMAGERY FROM POSSIBLE SCAFFOLDING JUST FORWARD OF THE SAIL PRECLUDED ANY ACCURATE DETERMINATION OF BERM DIMENSIONS.

25X1D

5. DASHED LINES (---) REPRESENT INTERPRETATION OF TENUOUS IMAGERY.
6. DRAWING IS NOT TO EXACT SCALE.

CIA/PID-18-P-1633/65

SECRET
NO FOREIGN DISSEM

SECRET
NO FOREIGN DISSEM

COMPLETED "G" CLASS SSB
ALONGSIDE COMMERCIAL WHARF
DAIREN, CHINA

OVERALL LENGTH

25X1D

25X1D

25X1D

25X1D

25X1D

PHOTO DATA

■ SUBMARINE HULL
□ SAIL AREA DETAIL

NOTES:

1. ALL DIMENSIONS PROVIDED BY CIA/TID/TAB (NPIC) WITH
THE ASSISTANCE OF THE PI.

25X1D

4. DASHED LINES (---) REPRESENT INTERPRETATION OF
TENUOUS IMAGERY.
5. DRAWING IS NOT TO EXACT SCALE.

SECRET
NO FOREIGN DISSEM

CIA/PID-1B-P-1634/65